## **AD50 Medical Series** 50 Watts

**Total Power:** 50 Watts **Input Voltage:** 90 - 264 VAC **# of Outputs:** Single





Rev. 05.18.11\_108 AD50 Medical Series



## **Special Features**

- Universal AC input
- Fully regulated output
- EN61000-3-2 compliant
- Input power < 74 watts
- Overcurrent and overvoltage protection
- High efficiency
- High MTBF
- IEC320 AC input receptacle
  3 pin (type C6) AD5012N3LM
  2 pin (type C8) AD5012N2LM
- Built in EMI filter
- (CISPR 22 Class B)
- AC input fuse
- Complies with One Watt Input Energy Star / Blue Angel Requirement

## Safety

CSA UL 60601-1 CSA 60601-1 VDE 60601-1

# **Electrical Specifications**

### Input

Input range: 90 - 264 Vac (wide range)

Frequency: 47 - 63 Hz

Inrush current: 60 A maximum @ 230 VAC, cold start 25 °C

Input current: 2 A maximum Efficiency: 80% typical

EMI/RFI: FCC Part 15, Class B & EN55022 (CISPR 22) Class B

Safety ground 300 µA maximum @ 50/60 Hz, 264 VAC input - AD5012N3L leakage current: 100 µA maximum @ 50/60 Hz, 264 VAC input - AD5012N2L

#### Output

Maximum Power (Po): 50 W

Hold-up time: 17 ms. minimum at full load @ 100 Vac, 47 Hz

Overvoltage protection: 16 - 20 V

Latching type, recycle AC to reset.

Overcurrent protection: Output short circuit protection auto recover

Overload protection @ 110 - 120% above maximum rating

Cable/connector: DC cable with 2.5 mm x 5.5 mm barrel plug

DC plug center +v DC plug outer -v

# **Environmental Specifications**

Operating temperature:  $5^{\circ}$  to +40 °C ambient Storage temperature: -40 °C to +70 °C

Electromagnetic Designed to meet EN61000-4-2, -4, -5, level 4;

susceptibility: EN61000-4-3, -6, 10v/m; EN61000-4-8, -11; EN61000-3-3

and EN61000-3-2 Class A

Humidity: Operating; non-condensing 10% to 90% RH

MTBF demonstrated: > 300,000 hours at full load and 25 °C ambient conditions





Ordering Information						
Model Number	Maximum Power	Output Voltage	Maximum Load	Peak Load¹	Regulation <sup>2</sup>	Ripple P/P (PARD)³
AD5012N3LM	50 W	12.5 Vdc	4.16 A	6 A	± 5%	< 500 mV
AD5012N2LM	50 W	12.5 Vdc	4.16 A	6 A	± 5%	< 500 mV
AD5012N2LM-0001	50 W	12.5 Vdc	4.16 A	6 A	± 5%	< 500 mV

1. Peak current lasting 200ms every 3 seconds.

**Mechanical Drawing** 

- 2. At 25 °C including initial tolerance, line voltage, load currents and output voltages adjusted to factory settings.
- 3. Peak-to-peak with 20 MHz bandwidth and 10  $\mu F$  (tantalum capacitor) in parallel with a 0.1  $\mu F$  capacitor at rated line voltage and load ranges.

### Americas

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AC Power

ID=2.5

**C6** 

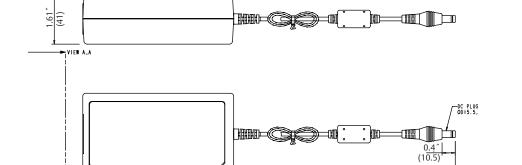
3 Pin Input for AD5012N3I M

2.56 (65)

- Connectivity
- DC Power
- Embedded Computing
- Embedded Power
- Monitoring
- Outside Plant
- Power Switching & Controls
- Precision Cooling
- Racks & Integrated Cabinets
- Services
- Surge Protection

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(1219 ±20)

**C8** 

2 Pin Input for AD5012N2LM

VIEW A\_A

**Right Angle Connector** 

4.72

(120)



- 1. Specifications subject to change without notice. 2. All dimensions in inches (mm), tolerance is  $\pm$  0.02" ( $\pm$  0.5 mm)
- 3. Warranty: 2 year

Notes:

- 4. Weight: 0.61 lb./ 0.28 kg
- 5. AC input power cord sold separately.
- 6. Specifications at factory settings at 115 VAC input, 25 °C unless otherwise stated
- AC Input Connector: IEC320, C6 or C8, mate with C5 and C7 respectively.